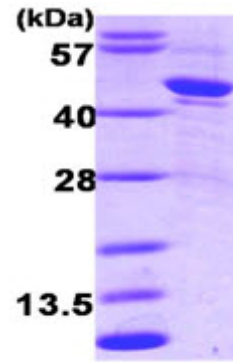


AR09121PU-N**Recombinant Human Alpha-1-antitrypsin (aa 25-418)**

Alternate names:	AAT, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, SERPINA1
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	Alpha 1 proteinase inhibitor (Antitrypsin) has a characteristic secondary structure of beta sheets and alpha helices. That is a serum glycoprotein synthesized in the liver. It acts as an elastase inhibitor, primarily inhibiting neutrophil elastase, chymotrypsin, collagenase, leucocytic proteases, plasmin, and thrombin, which may be released during inflammatory reactions in the lung. Also Increase in Antitrypsin occurs as an acute phase response to tissue necrosis and inflammation. Serum level of Antitrypsin is elevated in rheumatoid arthritis, bacterial infections, vasculitis, and carcinomatosis.
Uniprot ID:	P01009
NCBI:	9606
GeneID:	5265
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS PAGE Buffer System: 20 mM Tris pH 7.5, 10% Glycerol, 1 mM DTT, 2 mM EDTA
Description:	Recombinant Antitrypsin protein was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MEDPQGDAAQ KTDTSHTDQD HPTFNKITPN LAEFAFSLYR QLAHQSNSTN IFFSPVSIAT AFAMLSLGTK ADTHDEILEG LNFNLTEIPE AQIHEGFQEL LRTLNPDSQ LQLTTGNGLF LSEGLKLVDK FLEDVKKLYH SEAFVNFVGD TEEAKKQIND YVEKGTQGI VDLVKELDRD TVFALVNYIF FKGKWERPFE VKDTEEDDFH VDQVTTVKVP MMKRLGMFNI QHCKKLSSWV LLMKYLGAT AIFFLPDEGK LQHLENELTH DIITKFLENE DRRSASLHLP KLSITGTIDL KSVLQGLGIT KVFSNGADLS GVTEEAPLKL SKAVHKAVLT IDEKGTEAAG AMFLEAIPMS IPPEVKFNKP FVFLMIDQNT KSPLFMGKVV NPTQK Molecular weight: 44.4 kDa (395 aa), confirmed by MALDI-TOF
Storage:	Store at 2-8°C for 1-2 weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Kolarich D., et al. (2006), Proteomics 6(11):3369-80. 2. Wu Y., et al. (1991), Bioessays. 13(4):163-9

Pictures:



15% SDS-PAGE (3ug)

Recombinant Alpha-1-Antitrypsin, 25-418
aa: 15% SDS-PAGE (3 μ g)

